



## CHAPTER XV

# About the authors

**Michael Abberton** is at the Institute of Biological, Environmental and Rural Sciences (IBERS), Aberystwyth University where he leads germplasm development. He has fifteen years experience in the breeding of forage legumes (particularly white and red clover) and the development of new varieties with successful uptake and impact on farm. He has a Ph.D in Plant Genetics and his research is focused on plant breeding for the public good, particularly climate change mitigation and adaptation and reducing the environmental impact of livestock agriculture. He has written several publications on these subjects, hereunder the recent *Improvement of forages to increase the efficiency of nitrogen and energy use in temperate pastoral livestock systems* (2008).

**María Cristina Amézquita** is the scientific director of the Carbon Sequestration Project, Centro para la Investigación en Sistemas Sostenibles de Producción Agropecuaria (CIPAV-U), Cali, Colombia. She holds a doctorate degree in production ecology and resource conservation from Wageningen University in the Netherlands. Her areas of expertise include research methodology, sustainable tropical pasture and silvo-pastoral systems, climate change mitigation and adaptation options. She has been consultant to various agricultural and environmental organizations, including the Food and Agriculture Organization of the United Nations (FAO), World Bank, Inter-American Development Bank (IDB), and various research centers and universities in Latin America. She is the editor of five scientific books, many scientific book chapters and international publications in agriculture and environmental research for the benefit of the tropical and sub-tropical world.

**Caterina Batello** holds an MSc in Agriculture from the University of Milan, Italy and is Senior Officer in the Plant Production and Protection Division,

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**Sally Bunning** is Land Management Officer in the Natural resources and environment department of the UN Food and Agriculture Organisation with research and development experience in land and agro-ecosystem management in many regions but mainly in Africa. She is a geographer and holds an MSc in Land Resources Management – Soil and water engineering from Silsoe College, UK, and a DAA Soil and Bioclimatic sciences – Soil and water management for agriculture from ENSAM, France.

**Richard Conant** is currently a Smart Futures Fellow at Queensland University of Technology in Brisbane Australia and an ecosystem ecologist at the Natural Resource Ecology Laboratory at Colorado State University. His research focuses on understanding the feedbacks between human activities and ecosystem biogeochemistry. Specifically, he is interested in how land use and land management practices impact on carbon and nitrogen cycling in agricultural and grassland ecosystems. He believes that knowledge about the relationship between human activities and ecosystem ecology can empower policy makers to make wise decisions with respect to biogeochemistry. Mr. Conant leads research projects that span a variety of subjects ranging from physiochemical mechanisms that stabilize carbon in soil regional assessment of grassland management activities and associated impacts on carbon cycling. He is a participant in national and international efforts to quantify human impacts on carbon cycling and is involved in an effort to develop indicators of ecological condition for ecosystems close to home too. Mr. Conant earned his Ph.D at Arizona State University in 1997.

**Alan J. Franzluebbbers** is an ecologist with the Agricultural Research Service of the United States Department of Agriculture (USDA) in Watkinsville, Georgia, United States of America. He earned his Ph.D in Soil Science



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**Andrew J. Fynn** is Chief Executive Officer, C Restored LLC (sustainable agriculture consultancy), Marin County, California, United States of America. His research interests are in policy methods and mechanisms of increasing and mainstreaming sustainable agriculture, particularly in developing countries; hands-on/on the ground project activity with proven benefits. He has authored or co-authored numerous publications and has recently co-authored on the upcoming chapter; "Critical choices for crop and livestock production systems that enhance productivity and build ecosystem resilience" in *FAO State of Land and Water*.

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**Michael B. Jones** is a Professor of the School of Natural Sciences at Trinity College, Dublin, Ireland, and Chair of COST Action 627, Carbon Storage in European Grasslands. He has a Ph.D. from University of Lancaster, United Kingdom. His research interests energy and climate change, wetland ecosystems, biodiversity, anthropogenic impact on ecosystems and environmental plant physiology. He has written several publications on these subjects, hereunder the recent *Bundle sheath leakiness and light limitations during C4 leaf and canopy CO<sub>2</sub> uptake* (2008) and *Carbon mitigation by the energy crop, Miscanthus*, (2007).

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**Dominic Moran** is Professor of Environmental Economics at the Scottish Agricultural College, with a Ph.D. in Economics from University College London. His research interests focus on environmental and resource economics and policy analysis in developed and developing countries; measurement of public preferences for environmental change and their use in policy-making; the issue of public goods provision from agriculture and rural land use. He has published over 40 refereed journal papers and six co-authored books. Some of his recent publications include *Public preferences for rural policy reform: evidence from Scottish surveys* (in press); *Biomass & bioenergy: farm-level constraints on the domestic supply of perennial energy crops in the UK* (in press); *The scope for regulatory incentives to encourage increased efficiency of input use by farmers* (2009).



**Constance Neely** is Senior Rangeland Consultant on land, livestock, livelihoods and climate change with a focus on smallholder, pastoral and silvopastoral systems and former Vice President for Advocacy at Heifer International, Little Rock, United States of America. She holds a Ph.D. in Agroecology, with an emphasis on conservation agriculture. Her areas of expertise include sustainable development, sustainable agriculture and rural development; holistic, people-centred and multi-stakeholder approaches; and the nexus of land-livestock-livelihoods in light of climate change. She has written several publications on these subjects, hereunder two of the most recent *Dryland pastoral systems and climate change: implications and opportunities for mitigation and adaptation* (2008); *Do sustainable livelihoods approaches have a positive impact on the rural poor?* (2004).

**Monica Petri**, after a PhD in Agriculture obtained at the Scuola Superiore Sant'Anna of Pisa, Italy, worked in research related to territorial agro-environmental analysis of crop systems, soil and water management, and in the REVOLSO project (Alternative Agriculture for a Sustainable Rehabilitation of Deteriorated Volcanic Soils in Mexico and Chile). She is FAO consultant in the fields of agronomy, agricultural science and GIS. In the Natural Resources and Environment Department she is involved in the Land Degradation Assessment in Drylands (LADA) project and works with the global and national mapping of land use, land degradation and sustainable land management. She collaborated with the preparation of the Harmonized World Soil Database and of the State of Food and Agriculture 2007. At the time of the preparation of the present work, she was consulting in the Plant Production and Protection division in the assessment of climate change mitigation potentials of the rural sector.

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